

DOCSMTL-#1492327-v1-SEQLIST.TXT

SEQUENCE LISTING

<110> Gestion Univalor
BRISSON, Normand
DESVEAUX, Darrell
SUBRAMANIAM, Raiagopal
SYGUSCH, Jurgen

<120> PLANT TRANSCRIPTIONAL ACTIVATOR AND USES
THEREOF

<130> 2006691-0002

<150> To Be Assigned

<151> December 16, 2005

<160> 4

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<210> 1

<211> 274

<212> PRT

<213> Artificial Sequence

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<223> potato Stwhy1 protein sequence

<400> 1

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		20						25				30			
Ile	Asn	Thr	Ile	Phe	Ala	Pro	Leu	Ser	Ser	Asn	Thr	Thr	Lys	Ser	Phe
		35					40					45			
Ser	Gly	Leu	Thr	His	Lys	Ala	Leu	Pro	Arg	Asn	Leu	Ser	Leu	Thr	
	50					55				60					
Cys	Arg	His	Ser	Asp	Tyr	Phe	Glu	Pro	Gln	Gln	Gln	Gln	Gln	Gln	Gln
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				85					90					95	
Ser	Ile	Tyr	Lys	Gly	Lys	Ala	Ala	Leu	Thr	Val	Glu	Pro	Arg	Ser	Pro
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Glu	Phe	Ser	Pro	Leu	Asp	Ser	Gly	Ala	Phe	Lys	Leu	Ser	Arg	Glu	Gly
		115					120					125			
Met	Val	Met	Leu	Gln	Phe	Ala	Pro	Ala	Ala	Gly	Val	Arg	Gln	Tyr	Asp
	130					135					140				
Trp	Ser	Arg	Lys	Gln	Val	Phe	Ser	Leu	Ser	Val	Thr	Glu	Ile	Gly	Ser
145					150					155					160
Ile	Ile	Ser	Leu	Gly	Ala	Lys	Asp	Ser	Cys	Glu	Phe	Phe	His	Asp	Pro
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Asn	Lys	Gly	Arg	Ser	Asp	Glu	Gly	Arg	Val	Arg	Lys	Val	Leu	Lys	Val
			180					185					190		
Glu	Pro	Leu	Pro	Asp	Gly	Ser	Gly	His	Phe	Phe	Asn	Leu	Ser	Val	Gln
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Asn	Lys	Leu	Ile	Asn	Leu	Asp	Glu	Asn	Ile	Tyr	Ile	Pro	Val	Thr	Lys
	210					215					220				
Ala	Glu	Phe	Ala	Val	Leu	Val	Ser	Ala	Phe	Asn	Phe	Val	Met	Pro	Tyr
225					230					235					240
Leu	Leu	Gly	Trp	His	Thr	Ala	Val	Asn	Ser	Phe	Lys	Pro	Glu	Asp	Ala
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DOCSMTL-#1492327-v1-SEQLIST.TXT

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<220>
 <223> Arabidopsis whirly proteins Atwhy1

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 Lys Arg His Gly Phe Ala Leu Lys Pro Thr Thr Lys Thr Val Lys Leu
 35 40 45
 Phe Ser Val Lys Ser Arg Gln Thr Asp Tyr Phe Glu Lys Gln Arg Phe
 50 55 60
 Gly Asp Ser Ser Ser Ser Pro Ser Pro Ala Glu Gly Leu Pro Ala Arg
 65 70 75 80
 Phe Tyr Val Gly His Ser Ile Tyr Lys Gly Lys Ala Ala Leu Thr Val
 85 90 95
 Asp Pro Arg Ala Pro Glu Phe Val Ala Leu Asp Ser Gly Ala Phe Lys
 100 105 110
 Leu Ser Lys Asp Gly Phe Leu Leu Leu Gln Phe Ala Pro Ser Ala Gly
 115 120 125
 Val Arg Gln Tyr Asp Trp Ser Lys Lys Gln Val Phe Ser Leu Ser Val
 130 135 140
 Thr Glu Ile Gly Thr Leu Val Ser Leu Gly Pro Arg Glu Ser Cys Glu
 145 150 155 160
 Phe Phe His Asp Pro Phe Lys Gly Lys Ser Asp Glu Gly Lys Val Arg
 165 170 175
 Lys Val Leu Lys Val Glu Pro Leu Pro Asp Gly Ser Gly His Phe Phe
 180 185 190
 Asn Leu Ser Val Gln Asn Lys Leu Val Asn Val Asp Glu Ser Ile Tyr
 195 200 205
 Ile Pro Ile Thr Arg Ala Glu Phe Ala Val Leu Ile Ser Ala Phe Asn
 210 215 220
 Phe Val Leu Pro Tyr Leu Ile Gly Trp His Ala Phe Ala Asn Ser Ile
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 245 250 255
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 Page 2

DOCSMTL-#1492327-v1-SEQLIST.TXT

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Ala Leu Ser Val Glu Pro Val Leu Pro Ser Phe Thr Glu Ile Asp Ser
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Gly Asn Leu Arg Ile Asp Arg Arg Gly Ser Leu Met Met Thr Phe Met
 85 90 95
Pro Ala Ile Gly Glu Arg Lys Tyr Asp Trp Glu Lys Lys Gln Lys Phe
100 105 110
Ala Leu Ser Pro Thr Glu Val Gly Ser Leu Ile Ser Met Gly Ser Lys
115 120 125
Asp Ser Ser Glu Phe Phe His Asp Pro Ser Met Lys Ser Ser Asn Ala
130 135 140
Gly Gln Val Arg Lys Ser Leu Ser Val Lys Pro His Ala Asp Gly Ser
145 150 155 160
Gly Tyr Phe Ile Ser Leu Ser Val Asn Asn Ser Ile Leu Lys Thr Asn
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Asp Tyr Phe Val Val Pro Val Thr Lys Ala Glu Phe Ala Val Met Lys
180 185 190
Thr Ala Phe Ser Phe Ala Leu Pro His Ile Met Gly Trp Asn Arg Leu
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<223> Arabidopsis Whirly proteins AtWhy3

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35 40 45
Thr Ala Arg Leu Lys Leu Thr Val Lys Ser Arg Gln Ser Asp Tyr Phe
50 55 60
Glu Lys Gln Arg Phe Gly Asp Ser Ser Ser Ser Gln Asn Ala Glu Val
65 70 75 80
Ser Ser Pro Arg Phe Tyr Val Gly His Ser Ile Tyr Lys Gly Lys Ala
 85 90 95
Ala Leu Thr Ile Glu Pro Arg Ala Pro Glu Phe Val Ala Leu Glu Ser
100 105 110
Gly Ala Phe Lys Leu Thr Lys Glu Gly Phe Leu Leu Leu Gln Phe Ala
115 120 125
Pro Ala Ala Gly Val Arg Gln Tyr Asp Trp Ser Arg Lys Gln Val Phe
130 135 140
Ser Leu Ser Val Thr Glu Ile Gly Asn Leu Val Ser Leu Gly Pro Arg
145 150 155 160
Glu Ser Cys Glu Phe Phe His Asp Pro Phe Lys Gly Lys Gly Asp Glu
165 170 175
Gly Lys Val Arg Lys Val Leu Lys Val Glu Pro Leu Pro Asp Gly Ser
180 185 190
Gly Arg Phe Phe Asn Leu Ser Val Gln Asn Lys Leu Leu Asn Val Asp
195 200 205
Glu Ser Val Tyr Ile Pro Ile Thr Lys Ala Glu Phe Ala Val Leu Ile
210 215 220

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Ser	Ala	Phe	Asn	Phe	Val	Leu	Pro	His	Leu	Ile	Gly	Trp	Ser	Ala	Phe
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Ala	Asn	Ser	Ile	Lys	Pro	Glu	Asp	Ser	Asn	Arg	Leu	Asn	Asn	Ala	Ser
				245					250					255	
Pro	Lys	Tyr	Gly	Gly	Asp	Tyr	Glu	Trp	Ser	Arg					
			260					265							